

**VEGFR-1 (N-term) Rabbit Monoclonal Antibody
Product Data Sheet**

Catalog #1303-1

Clone ID: Y103 **Lot #:** Please refer to the vial
Quantity: 100 µl
Type: Rabbit Monoclonal IgG
Species Cross-reactivity: Human Mouse Rat
Applications: WB IHC ICC n/d Flow Cytometry IP
Molecular Wt.: 180 kDa
UniProt ID: P17948

Background: VEGFR-1 (vascular endothelial growth factor receptor 1) is a 180-kDa membrane receptor tyrosine kinase that is the receptor for vascular endothelial growth factor (VEGF), VEGFB and PGF. VEGF is a key regulator of physiological angiogenesis during embryogenesis, skeletal growth and reproductive functions. VEGF has also been implicated in pathological angiogenesis associated with tumors, intraocular neovascular disorders and other conditions (1). VEGFR-1 has seven extracellular Ig-like domains; the second domain from the N-terminus is necessary and sufficient for high affinity VEGF binding (2). The biological effects of VEGF are mediated by VEGFR-1 and VEGFR-2 (1), and two major tyrosine phosphorylation sites at Tyr 1213 and Tyr 1242 and two minor tyrosine phosphorylation sites at Tyr 1327 and Tyr 1333 exist in VEGFR-1 (3).

Specificity: A synthetic peptide corresponding to residues in N-terminus of human VEGFR1 was used as immunogen. The antibody can detect both VEGFR1 and its splice isoform sFlt1.

Storage Conditions: Store at -20 °C. Buffer: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

Recommended Dilutions:

WB: 1:500 - 1000
IHC: 1:250
ICC: 1:250
IP: 1:100

Background References:

1. Ferrara, N. et al. The biology of VEGF and its receptors. *Nat. Med.* 9: 669–676 (2003).
2. Starovasnik, M.A., et al. Solution structure of the VEGF-binding domain of Flt-1: comparison of its free and bound states. *J Mol Biol.* 293: 531–44 (1999).
3. Ito, N., et al. Identification of vascular endothelial growth factor receptor-1 tyrosine phosphorylation sites and binding of SH2 domain-containing molecules. *J Biol Chem.* 273: 23410–8 (1998).

Product QC'd by: _____

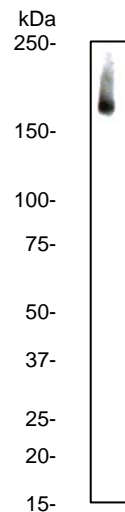


Fig 1. Western blot analysis on mouse brain tissue using anti-VEGFR-1 (N-term) (cat. #1303-1); dilution 1:10,000.

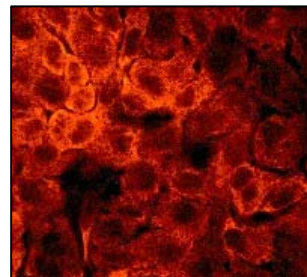


Fig 2. Immunofluorescent staining of A431 cells using anti-VEGFR-1 (N-term) (cat. #1303-1).

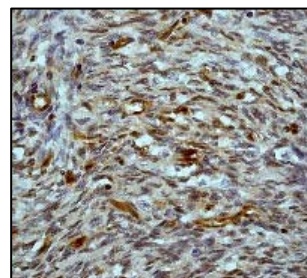


Fig 3. Immunohistochemical analysis of paraffin-embedded skin cancer using anti-VEGFR-1 (N-term) (cat. #1303-1).

For research use only. Not for use in diagnostic or therapeutic applications.

This product was manufactured under U.S. Patent No. 5,675,063. For a complete list of protocols and available related products, please visit www.epitomics.com.

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